SONY

TRINITRON® COLOR TV

KV-1952RX/1953RX

OPERATING INSTRUCTIONS

Welcome to the advanced world of Sony TV. For the best results and the utmost satisfaction from your new set, please read this manual thoroughly, and retain it for future reference.

This instruction manual covers the KV-1952RX and KV-1953RX. They are different in appearance but their operation is the same. The photos and the illustrations of the KV-1953RX are used in this manual.

OWNER'S RECORD

The model and serial numbers are located at the rear. Record these numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. _____ Serial No. _____

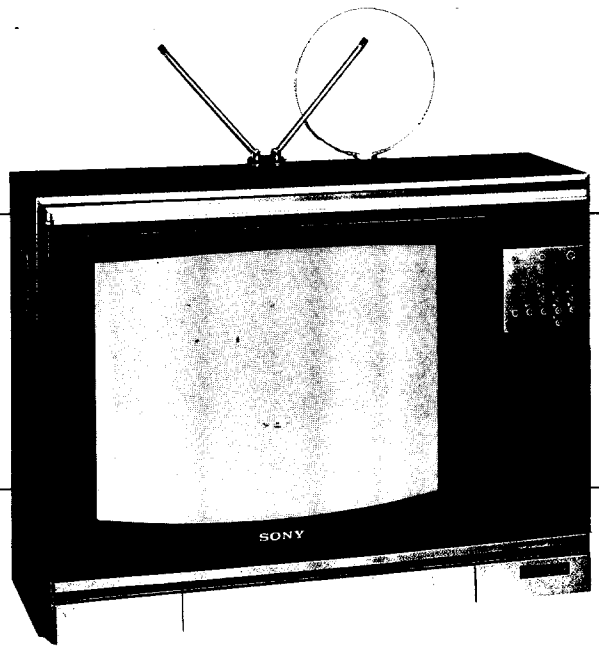

Photo: KV-1953RX

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WARNING

To prevent fire or shock hazard, do not expose the set to rain or moisture.

Dangerously high voltages are present inside the set. Do not open the cabinet. Refer servicing to qualified personnel only.

PRECAUTIONS

USE

- Operate only on 120 V ac, 60 Hz.
- This set is equipped with a polarized ac power cord plug (one blade of the plug is wider than the other), which will fit into the power outlet only one way. Should you be unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact your dealer for assistance. Do not defeat the safety purpose of the polarized plug.
- Should any liquid or solid object fall into the cabinet, unplug the set and have it checked by qualified personnel before operating it any further.
- Unplug the set from the wall outlet if it is not to be used for several days.
- To disconnect the cord, pull it out by the plug. Never pull the cord itself.

INSTALLATION

- Allow adequate air circulation to prevent internal heat build-up. Do not place the set on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.
- Do not install the set in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.

MAINTENANCE

- Save the original shipping carton and packing material; they will come in handy if you ever have to ship your set. For maximum protection, repack your set as it was originally packed at the factory.
- To keep the set looking brand-new, periodically clean it with a soft cloth. Stubborn stains may be removed with a cloth lightly dampened with a mild detergent solution. Never use strong solvents such as thinner or benzine, or abrasive cleansers since these will damage the cabinet. As a safety precaution, unplug the set before cleaning it.

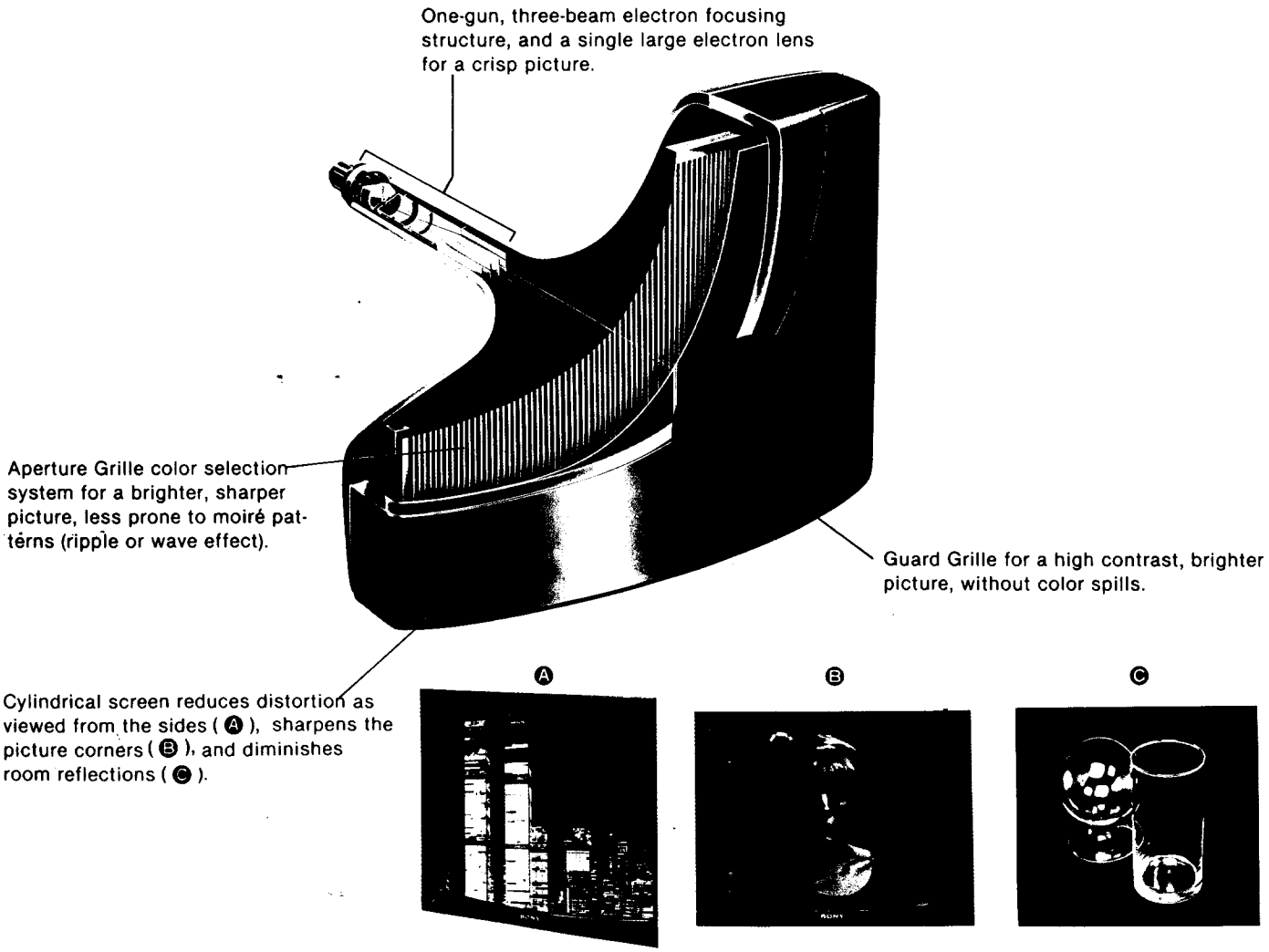
For detailed safety precautions, see the leaflet "IMPORTANT SAFEGUARDS" included with this manual in the vinyl bag.

FEATURES

- Remote Commander operation of power on/off, sound volume, muting, channel selection and picture control adjustment.
- CATV (cable television) programs or normal broadcast programs can be selected.
- The MPX OUT jack allows a special (optional) adaptor to be connected for any future multichannel sound (stereo, bilingual, etc.) TV broadcasts.
- Easy selection of any channel or of your favorite preset channels, using the channel number buttons or the CHANNEL scan buttons.
- DYNAMIC COLOR™, system for superior color reproduction with natural facial color tones and dazzling whites.
- ECONOQUICK™, energy-saving quick-start picture system.
- Easy-to-read green fluorescent display on the channel indicator.

TRINITRON COLOR SYSTEM

The Sony Color TV employs the unique Trinitron Color System. A product of intensive engineering research, the Trinitron Color System provides a brighter and sharper picture, with simplified and more accurate service adjustments.


One-gun, three-beam electron focusing structure, and a single large electron lens for a crisp picture.
Aperture Grille color selection system for a brighter, sharper picture, less prone to moiré patterns (ripple or wave effect).
Guard Grille for a high contrast, brighter picture, without color spills.
Cylindrical screen reduces distortion as viewed from the sides (Ⓐ), sharpens the picture corners (Ⓑ), and diminishes room reflections (Ⓒ).
Ⓐ
Ⓑ
Ⓒ

Ⓐ and Ⓑ are simulated pictures.

LOCATION OF PARTS AND CONTROLS

OUTSIDE PANEL

UHF loop antenna
Adjust as required for best UHF reception.

VHF telescopic dipole antenna
Adjust as required for best VHF reception.

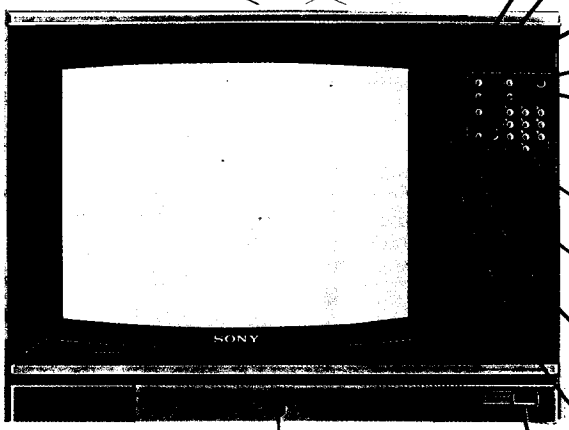


Photo: KV-1953RX

Remote control detector

Response lamp
Blinks when the buttons are pressed and lights steadily when the MUTING button on the Remote Commander is pressed, or when the volume or contrast is at a maximum or minimum.

Channel indicator
Indicates the channel number.

POWER switch
Press to turn on the power. Press again to turn the power off.

VOLUME buttons
Press the + or – button to regulate the volume.

Channel number buttons
Select the desired channels directly by pressing the appropriate buttons. For channels 2 through 9, press the 0 button first.

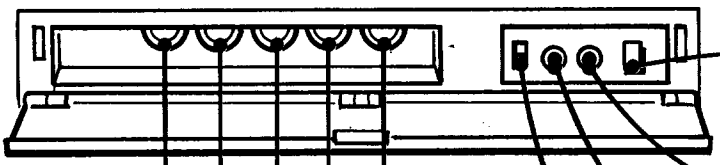
CLEAR button
Press this button, when you select an incorrect tens-digit or forget to first select 0 for channels 2 through 9. The display will show "––" at such time.

CHANNEL scan buttons
Press the + or – button to scan the prememorized channels respectively higher or lower.

PICTURE buttons
Adjust the contrast to suit your preference and the room lighting.

EARPHONE jacks
Used for listening with the supplied earphone, or for recording the TV sound.
See "USE OF THE EARPHONE JACKS" on page 9.

INSIDE THE PANEL COVER



MASTER switch
Generally keep this switch depressed (⏍ ON). If this switch is released (⏍ OFF), even if you press the POWER switch on the TV or the Remote Commander, the TV will not be turned on.

ADD button
Press to add your desired channels.
See "CHANNEL PRESETTING" on page 13.

ERASE button
Press to erase inactive channels.
See "CHANNEL PRESETTING" on page 14.

NORMAL/CATV selector
Set to NORMAL to view normal TV programs and to CATV to view CATV programs.
Receivable channels are as follows:
NORMAL: 2—13, 14—83
CATV: 2—13, A-2, A-1, A—W

AUTO switch

BRIGHT (brightness) control

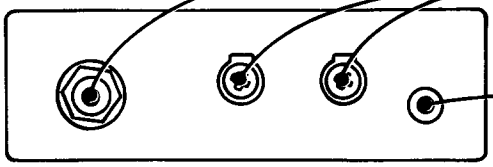
COLOR control

HUE control

SHARPNESS control

See "PICTURE ADJUSTMENTS" on page 8.

REAR PANEL



VHF antenna terminal

UHF antenna terminals

MPX OUT jack

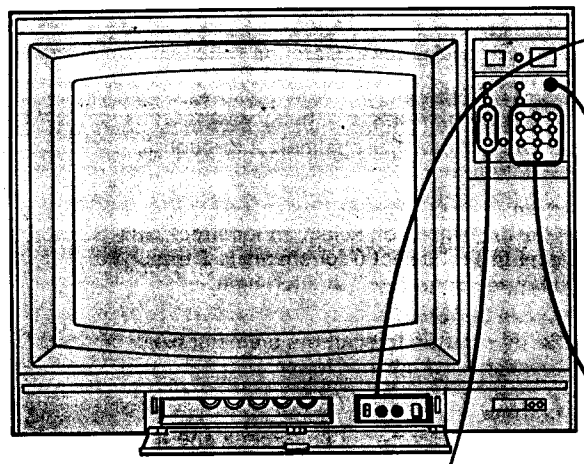
The KV-1952RX/1953RX is supplied with the RM-707 Remote Commander.
See "REMOTE CONTROL OPERATION" on page 11.

NORMAL TV OPERATION (PANEL OPERATION)

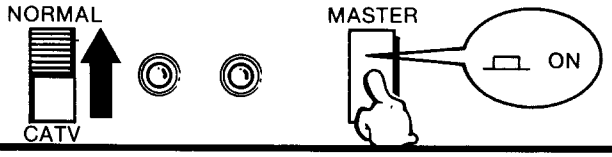
TO VIEW THE TV

You can select the desired channel by pressing the appropriate channel number buttons, or by scanning higher or lower for the channel among the prememorized channels with the CHANNEL scan buttons.
This TV is preset at the factory to receive VHF channels 2 through 13 with the CHANNEL scan buttons.

Operation steps



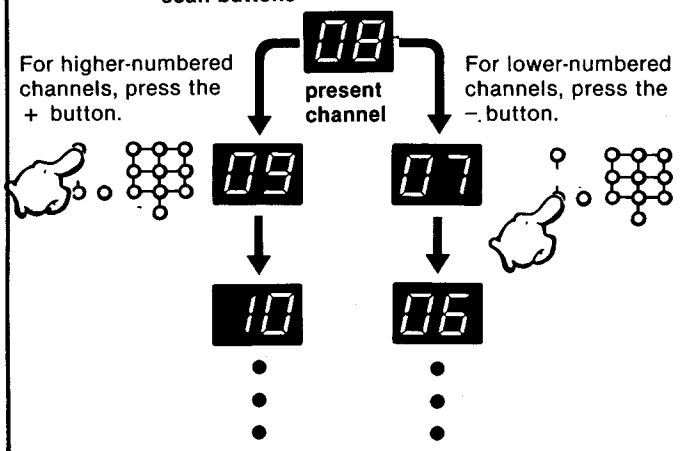
Before operation, check that the MASTER switch is turned on and that the NORMAL/CATV selector is set to NORMAL.



1 **Turn on the power.**

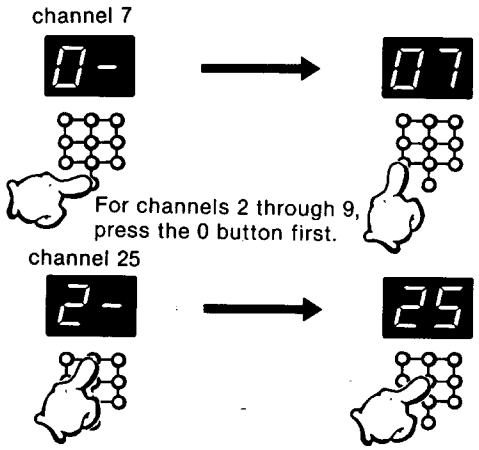
2 **Select the desired channel.**

Examples using the CHANNEL scan buttons



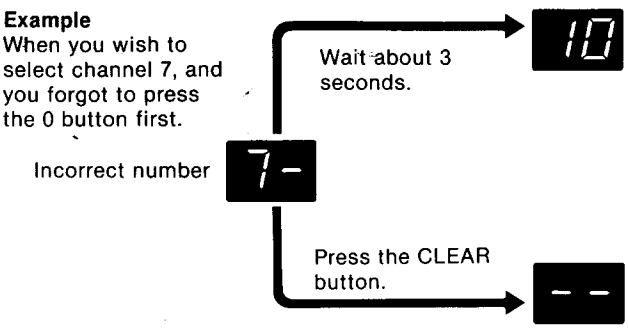
To add UHF channels, see page 13.

Examples using the channel number buttons



If you select an incorrect tens-digit, or forget to first select 0 for channels 2 through 9, proceed as in the following example.

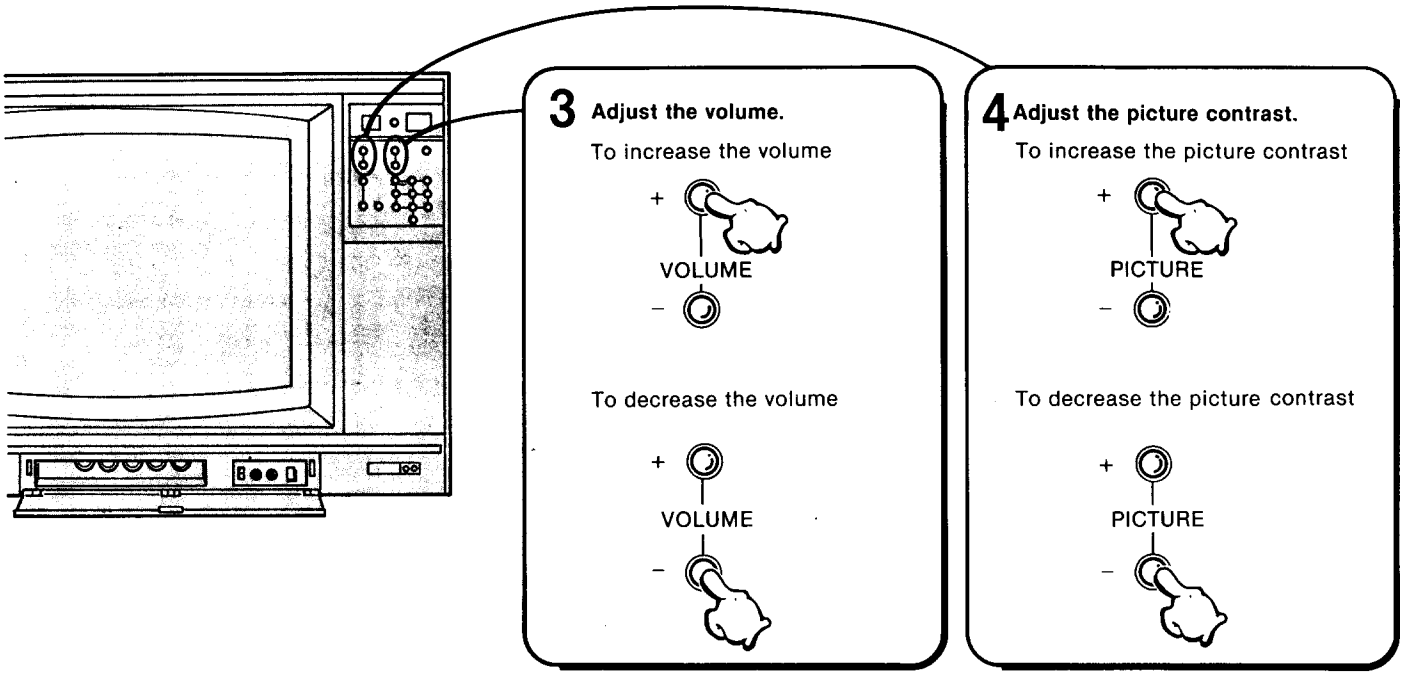
Example
When you wish to select channel 7, and you forgot to press the 0 button first.



The previous number display is recalled.

The picture will disappear (only snow shows) and the sound will go off.

Press the correct channel number buttons.



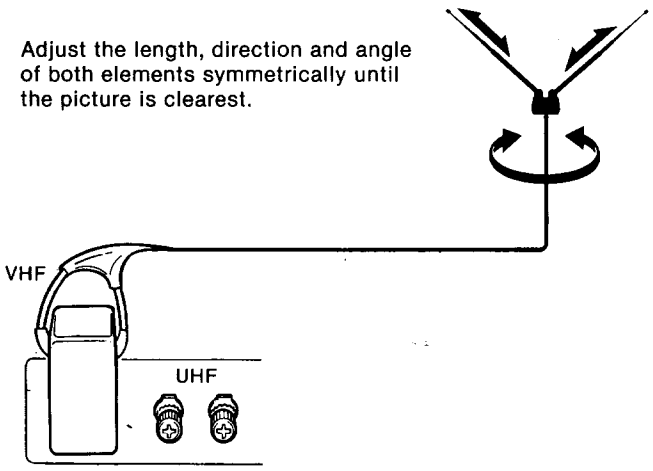
Position of controls after the power is turned off and turned on again.

	with POWER switch on the TV or Commander	with MASTER switch
channel	memorized	memorized
sound volume		factory-preset levels
picture contrast		

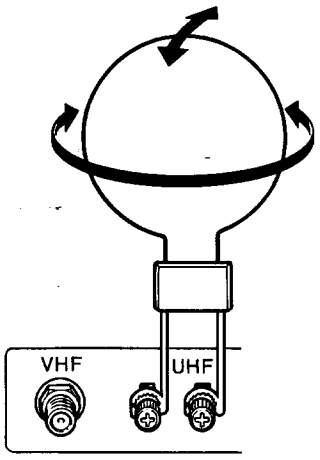
Indoor antenna adjustment

For VHF reception, use the VHF telescopic dipole antenna.

Adjust the length, direction and angle of both elements symmetrically until the picture is clearest.



For UHF reception, raise the UHF loop antenna, and swing the loop back and forth and/or sideways until the picture is clearest.

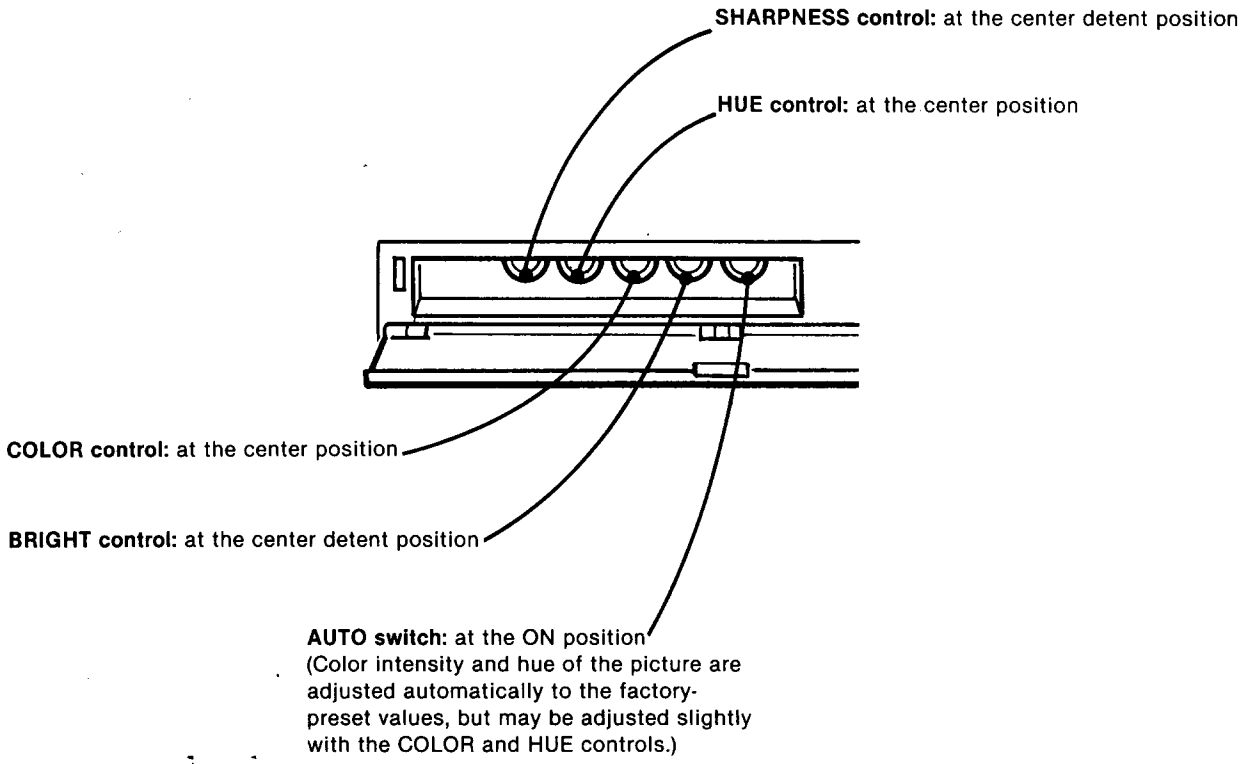


Note

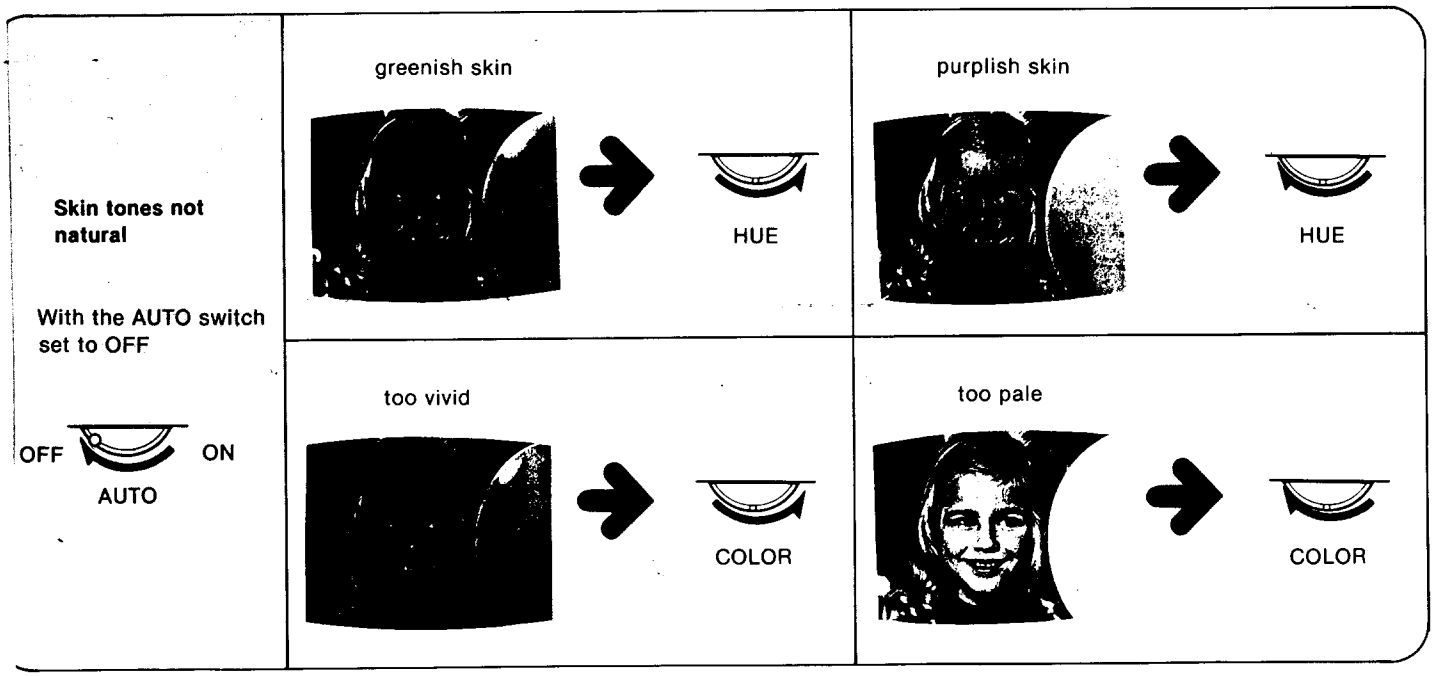
If satisfactory results cannot be obtained with the built-in indoor antennas, install external antennas as shown on page 15.

PICTURE ADJUSTMENTS

Satisfactory results will usually be obtained with the controls set at the following positions. If any adjustments are necessary, adjust the required controls as described in the "Adjustment guide" according to picture conditions.


SHARPNESS control: at the center detent position
HUE control: at the center position
COLOR control: at the center position
BRIGHT control: at the center detent position
AUTO switch: at the ON position
(Color intensity and hue of the picture are adjusted automatically to the factory-preset values, but may be adjusted slightly with the COLOR and HUE controls.)

Adjustment guide



Too bright or too dark picture

too bright

BRIGHT

too dark

BRIGHT

Too sharp or too soft picture

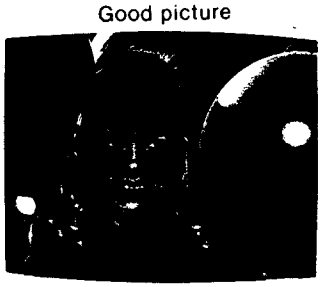
too sharp or snowy picture

SHARPNESS

too soft

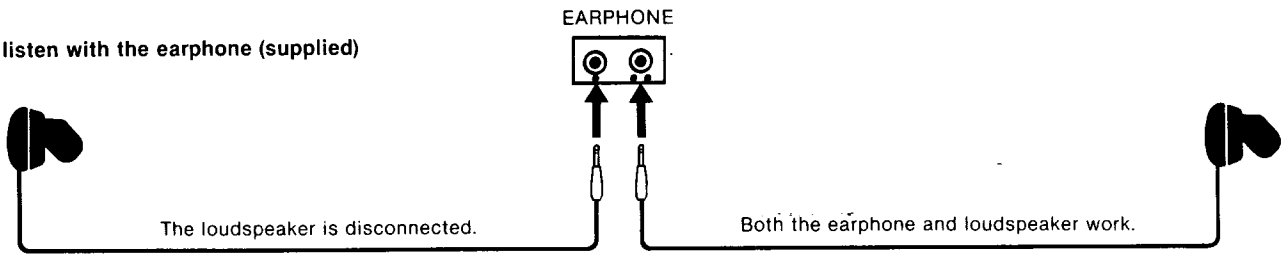
SHARPNESS

Good picture

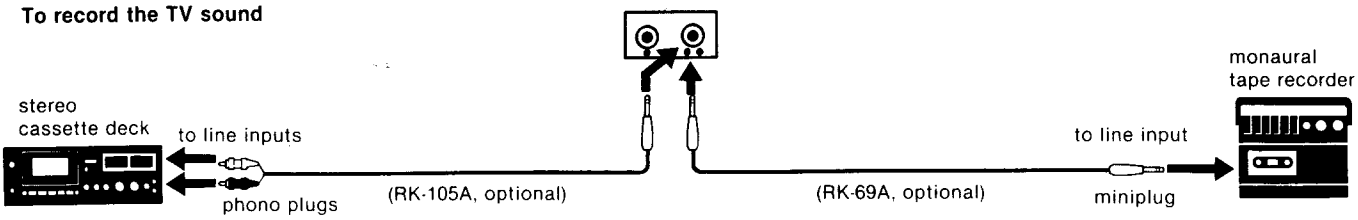


USE OF THE EARPHONE JACKS

To listen with the earphone (supplied)



To record the TV sound



(The recorded sound is monaural.)

;ABLE TV OPERATION (PANEL OPERATION)

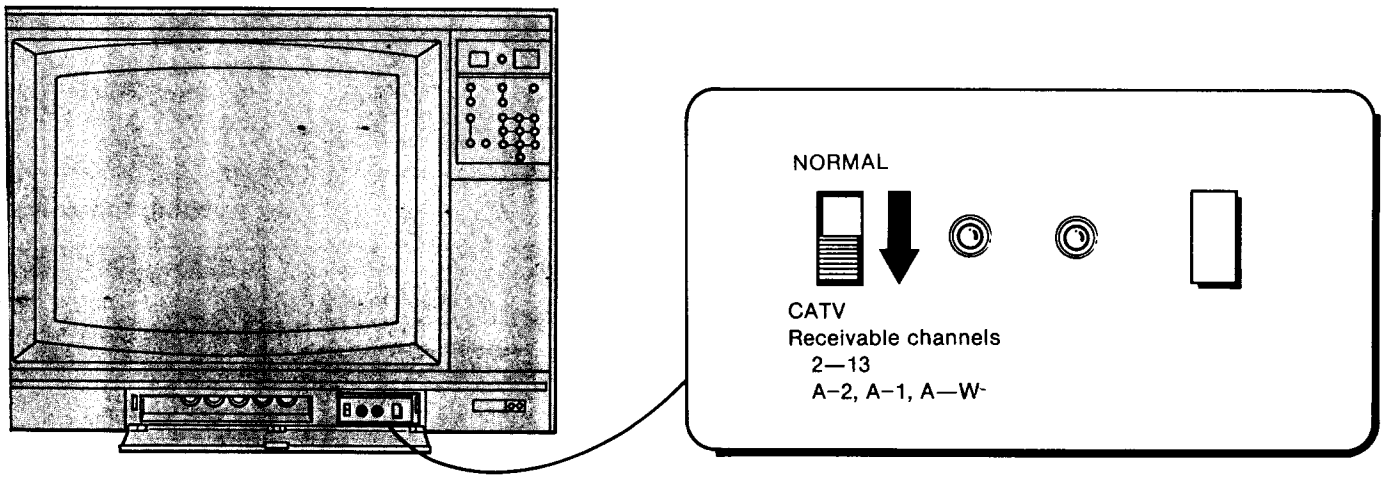
CATV (cable television) systems, programs are brought into the me on the mid-band channels and the super-band channels.
ith the NORMAL/CATV selector set to CATV, this TV receives mid- nd channels A–2, A–1, A through I and super-band channels J ough W.
annel A-2 can be tuned in by selecting number 00 on this TV, annel A-1 by selecting number 01, channel A by selecting number , and so on, as follows:

Number on this TV	00	01	14	15	16	17	18	19	20	21	22
Corresponding CATV channel	A–2	A–1	A	B	C	D	E	F	G	H	I

23	24	25	26	27	28	29	30	31	32	33	34	35	36
J	K	L	M	N	O	P	Q	R	S	T	U	V	W

ost CATV systems use letters to designate channels but some e numbers. To tune in a numbered channel, select the same mber on the TV.
nsult your local cable TV company or your nearest Sony dealer find out which of these channels are receivable and which type cable system is used in your area. (Pay cable TV systems use ambled or encoded signals and require special converters.)

CATV programs are tuned in the same way as normal TV programs except for the NORMAL/CATV selector setting. See "NORMAL TV OPERATION" on pages 6 and 7.



Operating notes

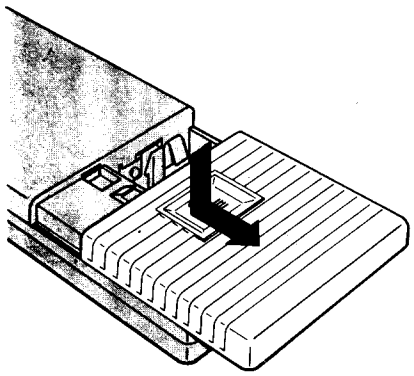
- Any channel can be selected directly with the channel number buttons regardless of the presetting.
- It may take a little longer to tune in the desired CATV channel than a normal TV channel.

REMOTE CONTROL OPERATION

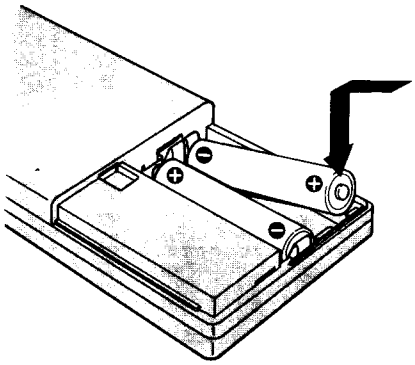
BATTERY INSTALLATION

The Sony RM-707 Remote Commander operates on two supplied AA batteries (IEC designation R6).

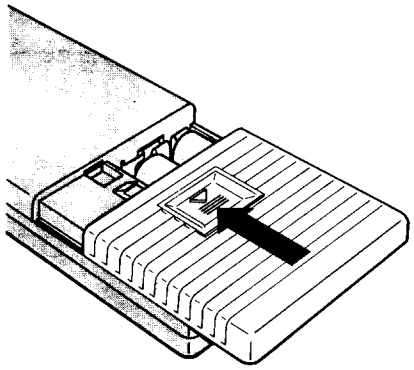
1 Push and slide.



2 Insert the batteries observing the correct polarity.



3 Slide to close.



FUNCTION OF THE BUTTONS ON THE REMOTE COMMANDER

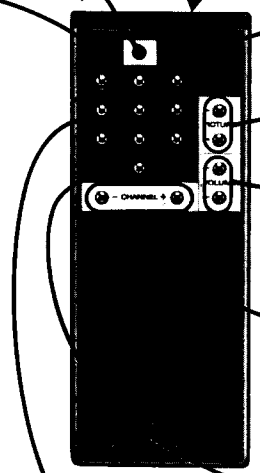
Output indicator
This lamp indicates when the Remote Commander is operating.
If the lamp does not light when any of the function buttons are pressed, battery replacement is required.

Transmitter
Point toward the remote control detector on the TV.

A button which has no equivalent on the TV

MUTING button
To mute the sound immediately, press this button. Sound muting will be released when the MUTING button is pressed again, the VOLUME + button is pressed, or the TV is turned off and on again.

Buttons whose functions are the same as the TV panel buttons.



POWER switch

PICTURE buttons

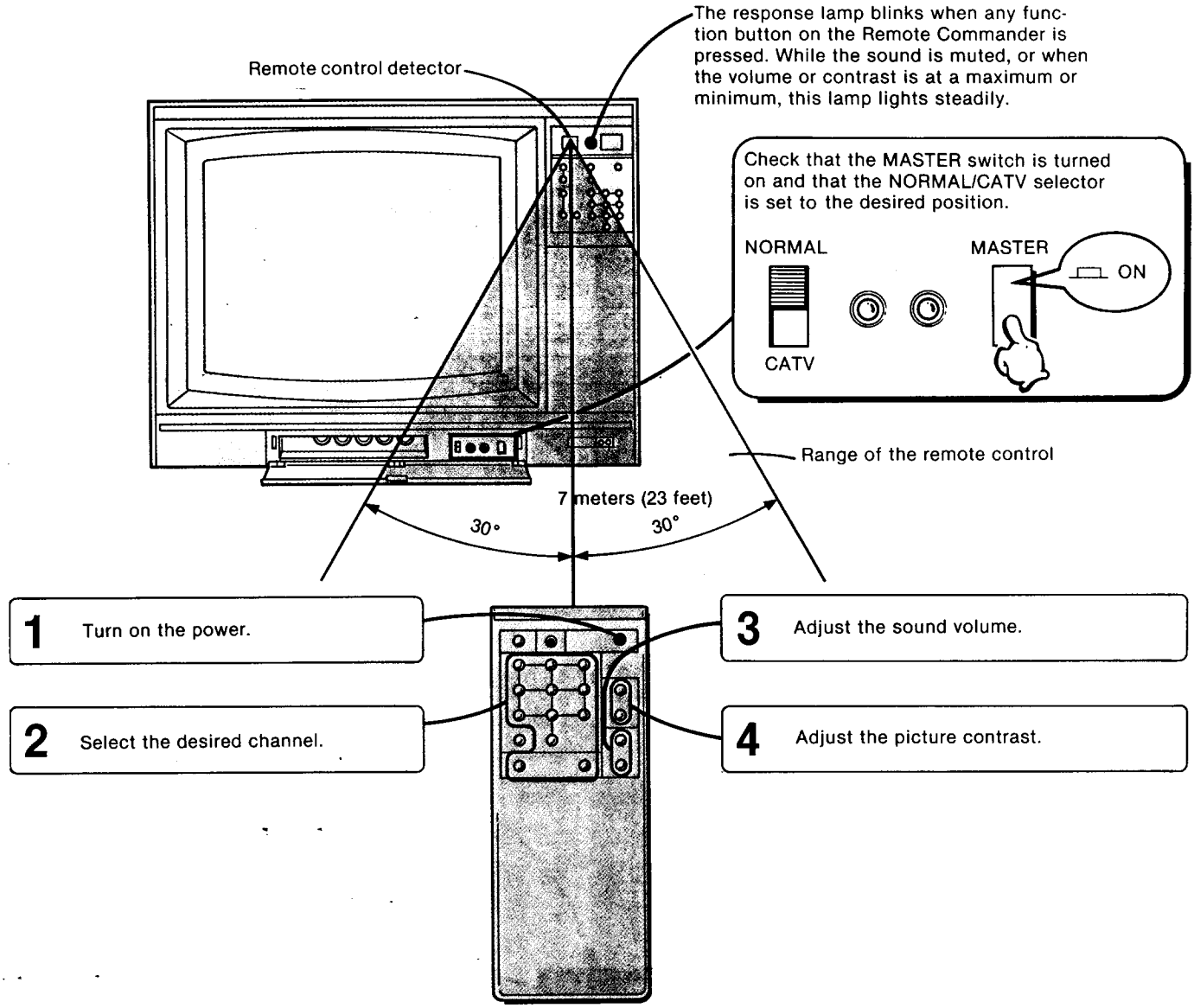
VOLUME buttons

CHANNEL scan buttons
The right button corresponds to the upper button on the TV, and the left button corresponds to the lower button on the TV.

CLEAR button

Channel number buttons

)PERATION OF THE REMOTE COMMANDER


The response lamp blinks when any function button on the Remote Commander is pressed. While the sound is muted, or when the volume or contrast is at a maximum or minimum, this lamp lights steadily.
Remote control detector
Check that the MASTER switch is turned on and that the NORMAL/CATV selector is set to the desired position.
NORMAL
MASTER
ON
CATV
Range of the remote control
7 meters (23 feet)
30°
30°
1 Turn on the power.
2 Select the desired channel.
3 Adjust the sound volume.
4 Adjust the picture contrast.

ıtes on the Remote Commander

In normal operation, battery life is up to lf a year. When the battery is exhausted, ɜ Remote Commander will not operate ɜ TV properly. In this case, replace the tteries with new ones.

When the Commander is not used for a ıg period of time, remove the batteries to oid damage from possible battery ıkage.

Keep the Commander away from exmely hot or humid places.

Avoid dropping any foreign objects into ɜ Commander case when replacing baties.

The RM-707 Commander may be used on- with those Sony color TV models in- :ated in the operating instructions.

CHANNEL PRESETTING— How to preset the channels to be scanned with the CHANNEL scan buttons.

Your TV has been set at the factory to receive VHF channels 2 through 13 in sequence when you press the CHANNEL scan buttons. You can add UHF or CATV channels and erase inactive VHF channels so that only the channels available in your area will appear in the sequence.

TO ADD UHF OR CATV CHANNELS

1 Select the receivable source.

NORMAL

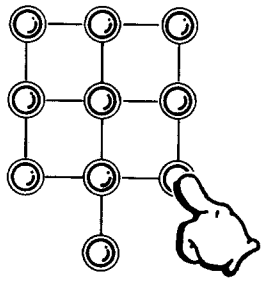
For UHF

For CATV

CATV

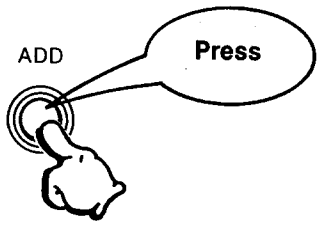
For VHF Either position will do.

2 Select the channel to be added.



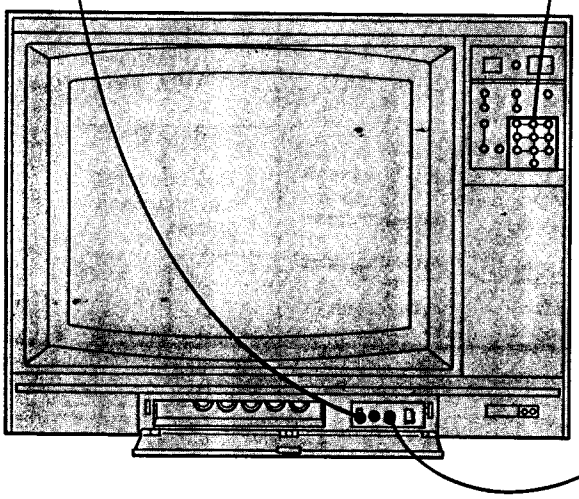
3

Channel indicator



Number of channel added

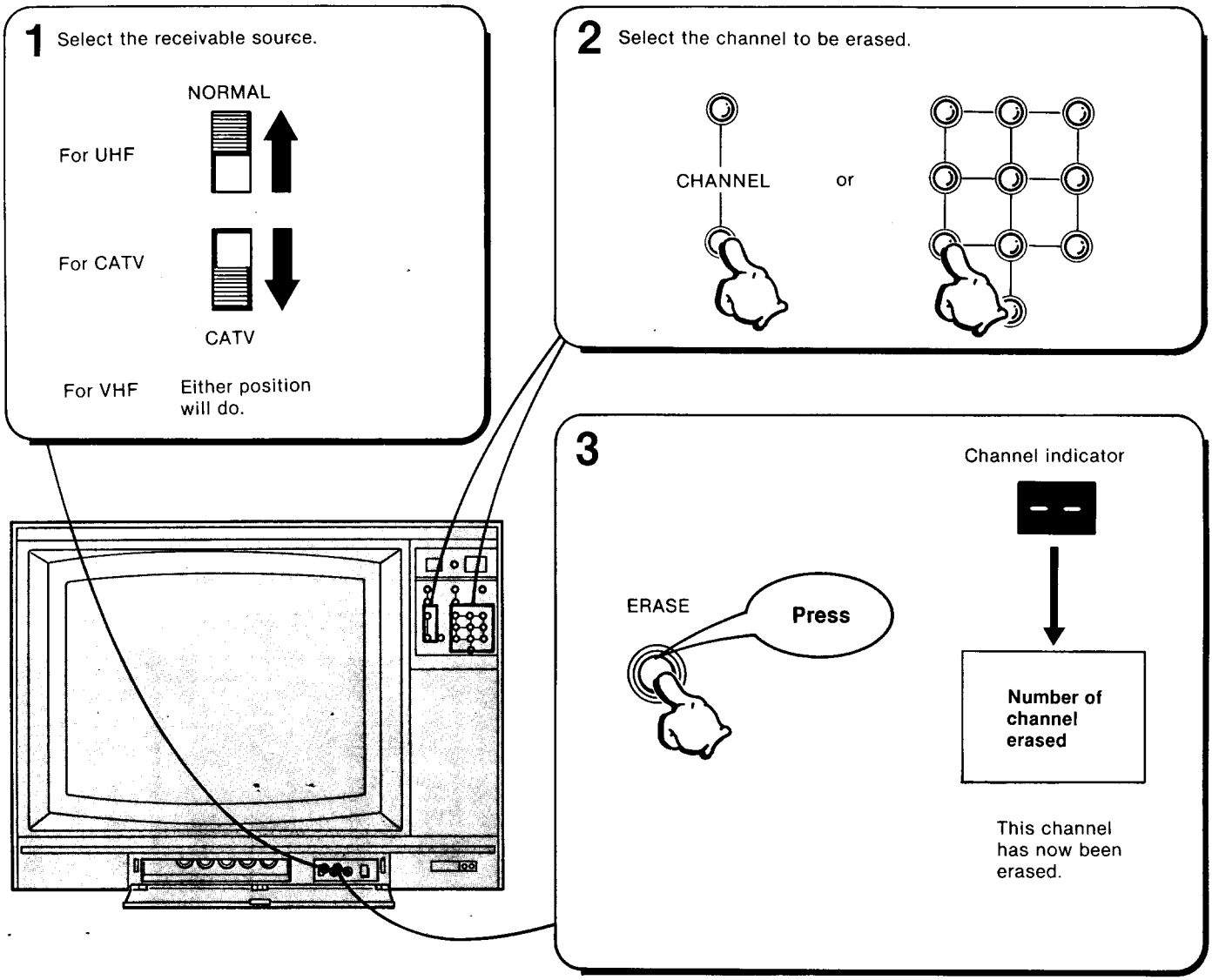
This channel has now been added.



REPEAT THE ABOVE FOR ALL THE CHANNELS TO BE ADDED. The channels will be entered in numerical sequence regardless of the adding sequence.

For CATV channel presetting, consult the CATV company in your area.

TO ERASE INACTIVE CHANNELS



EPEAT THE ABOVE FOR ALL THE CHANNELS TO BE ERASED.

) add once-erased channels again, see "TO ADD UHF OR CATV HANNELS".

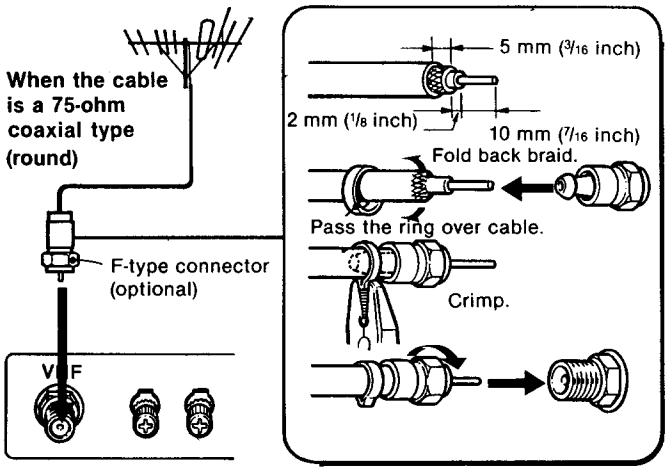
)erating note: It is not possible to erase a UHF channel from the emory and retain the CATV channel of the same number in the emory, or vice versa.
either the UHF channel or the CATV channel of the same number to be kept in the memory, do not erase the number.

EXTERNAL ANTENNA/CABLE CONNECTION

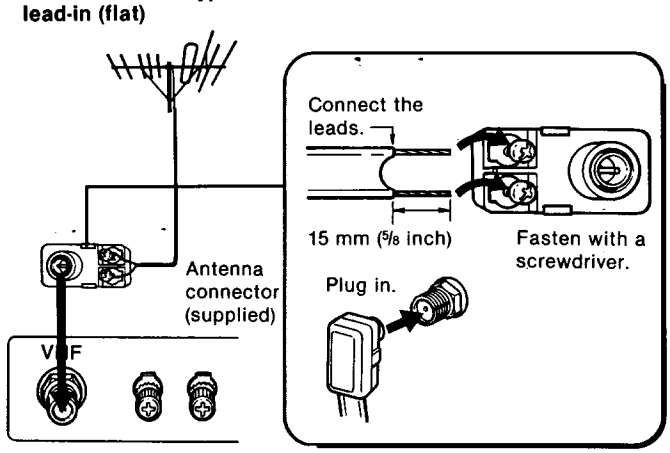
If your local signal is strong, an indoor antenna may be sufficient to obtain a clear picture.
The use of an external antenna is recommended especially in difficult reception areas (inside steel-frame buildings, in mountainous areas, or at great distances from the transmitter).

VHF antenna

Pull out the antenna connector from the VHF antenna terminal, thus disconnecting the VHF telescopic dipole antenna. Use the antenna connector for 300-ohm ribbon type lead-in connection.

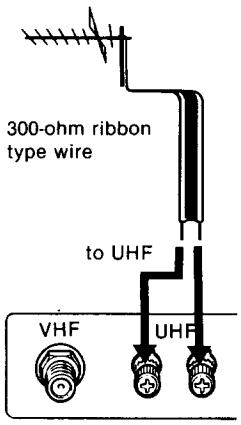


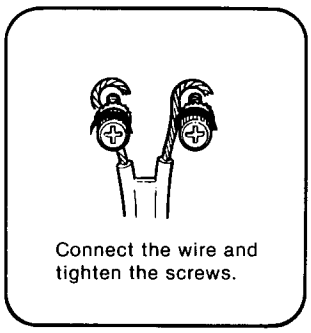
When the cable is a 300-ohm ribbon type lead-in (flat)



UHF antenna

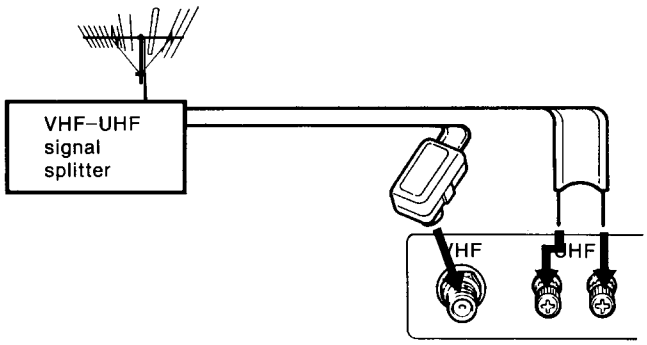
Loosen the screws on the UHF antenna terminals, and pull out the lugs of the UHF loop antenna.





Combination VHF/UHF antenna

Most combination antennas already have a signal splitter. If you need a splitter or a complete antenna system, see your Sony dealer or a qualified technician.



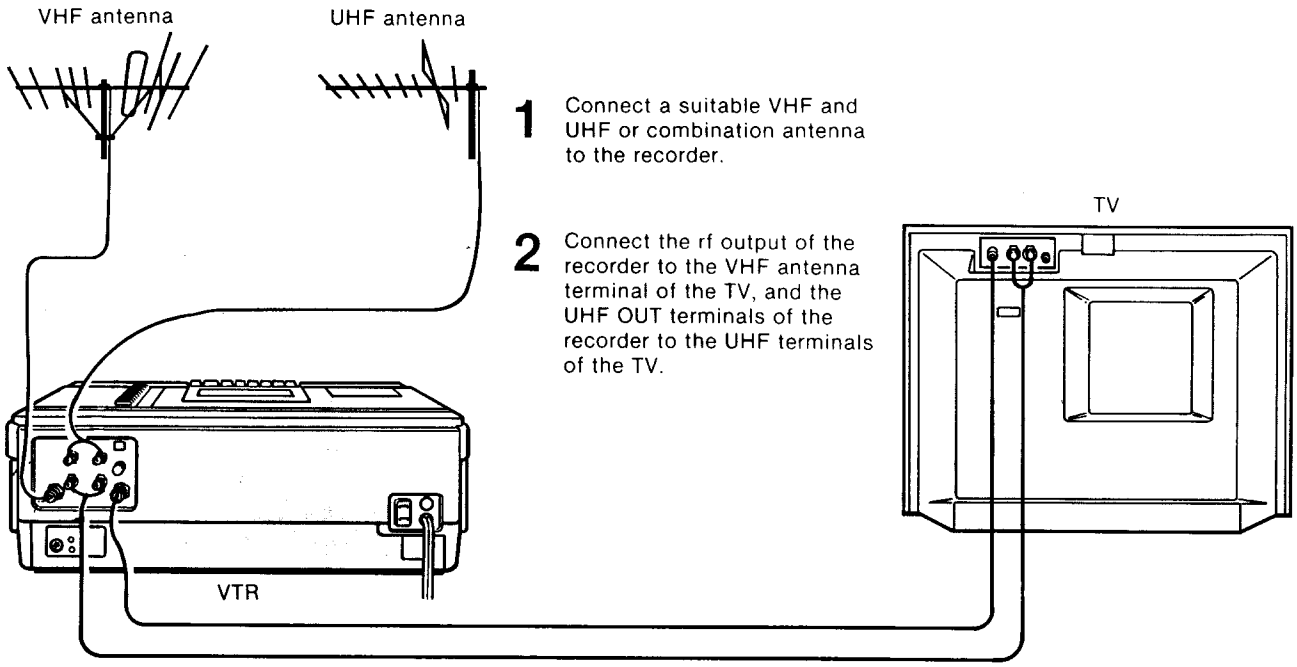
CATV cable

Connect the CATV coaxial cable to the VHF antenna terminal. We recommend that you consult your cable TV company to make sure that the cable is properly connected.

VIEWING VTR PLAYBACK

To view the playback picture from a Sony Betamax videocassette recorder (or other VTR) equipped with an rf output terminal.

CONNECTION

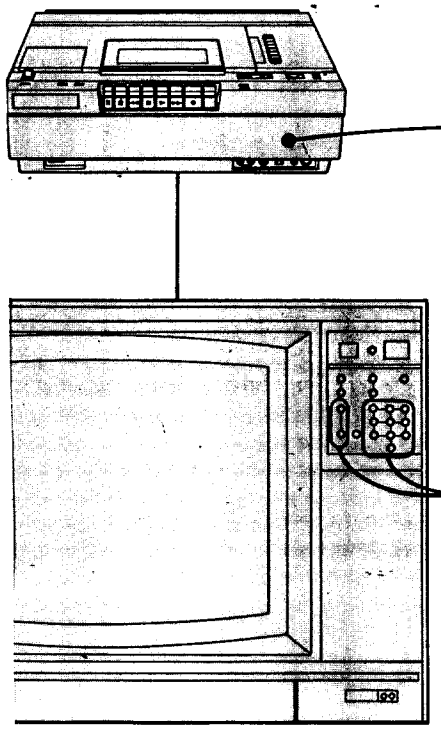


1 Connect a suitable VHF and UHF or combination antenna to the recorder.

2 Connect the rf output of the recorder to the VHF antenna terminal of the TV, and the UHF OUT terminals of the recorder to the UHF terminals of the TV.

For details, refer to the instructions furnished with the recorder.

OPERATION



Adjusting the recorder

1 Set the rf unit channel selector to channel 3 or 4, whichever channel is not active in your area.

2 Set the recorder to the playback mode.
(If you do not have a pre-recorded tape, set the TV/VTR selector to VTR and select an active channel with its channel-select button on the recorder.)
The signal from the recorder will be fed to the TV.

Adjusting the TV

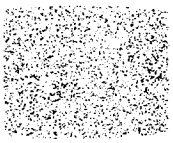
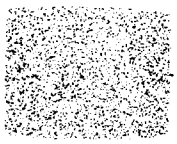
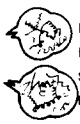
3 Select VHF channel 3 or 4 (the operation channel of the rf unit built into the recorder) by pressing the 0 number button and 3 or 4 number button, or pressing the upper or lower CHANNEL scan button.
The playback picture will then appear.

Operating note

If the inactive channel 3 or 4 has been erased as described before, the playback picture cannot be selected with the upper or lower CHANNEL scan button. However, the desired channel selection can again be made as usual with the number buttons.

CHECKING THE SET BY YOURSELF

Many apparent malfunctions may be caused by slight misadjustments of the regular controls or some other equally simple cause. If any difficulty arises in the operation of your set, first check through this illustrated list of symptoms and corrections. Should the difficulty persist, unplug the set and contact your Sony dealer.

SYMPTOM	CORRECTION
no picture (screen not lit), no sound	• Plug the set into a working outlet. • Press the MASTER switch and POWER switch.
no picture (screen not lit), but good sound	• Press the PICTURE + button. • Turn the BRIGHT control clockwise.
good picture but no sound	• Unplug the earphone from the EARPHONE jack [•]. • Press the VOLUME + button. • Release the sound muting by pressing the MUTING button, or VOLUME + button or turning the TV off and on again.
 blank snowy screen, no sound	• When "– –" is displayed in the channel indicator (the CLEAR button has been pressed), select the channel number correctly or turn off the TV momentarily.
  no picture, no sound, but snow and noise only	• Connect the antenna properly. • Adjust the indoor antenna. • Check the outdoor antenna. • An inactive channel is selected. • Check the NORMAL/CATV selector setting.
no color	• Check that the AUTO switch is set to ON. • Check that the COLOR control is not turned fully counterclockwise.
dotted lines or stripes	• Often caused by interference from autos, neon signs, hair dryers, electric razors, etc. Try adjusting the antenna for minimum interference.
double images or "ghosts"	• Reflections from nearby mountains or buildings often cause this problem. In such cases, a highly directional outdoor antenna may improve the picture.

SPECIFICATIONS

KV-1952RX/1953RX

Television system	American TV standards
Channel coverage	VHF channels 2—13 UHF channels 14—83 CATV mid-band channels A–2, A–1, A—I super-band channels J—W
Picture tube	Trinitron tube 19-inch picture measured diagonally, 100-degree deflection
Antenna	VHF telescopic dipole antenna UHF loop antenna 75-ohm antenna terminal for VHF 300-ohm antenna terminals for UHF
Speaker	Approx. 10 cm (4 inches) dia.
Output	MPX output (phono jack) 77.5 mV rms load impedance 10 kilohms (main channel 1 kHz, 100% modulation)
Power requirements	120 V ac, 60 Hz
Power consumption	125 W (max.), 82 W (average) 2.7 W (in standby condition)
Dimensions	Approx. 660 × 496 × 473 mm (w/h/d) (26 × 19 5/8 × 18 5/8 inches)
Weight	Approx. 28 kg (61 lb 12 oz)
Accessories supplied	Remote Commander RM-707 Earphone

Remote Commander RM-707

Remote control system	Infrared control
Power requirements	3 V dc Battery size AA × 2 (IEC Battery Designation R6)
Dimensions	Approx. 60 × 20 × 150 mm (w/h/d) (2 3/8 × 3/4 × 6 inches)
Weight	Approx. 134 g (4.7 oz) incl. batteries
Accessory supplied	Battery size AA 2 pcs.

Design and specifications subject to change without notice.